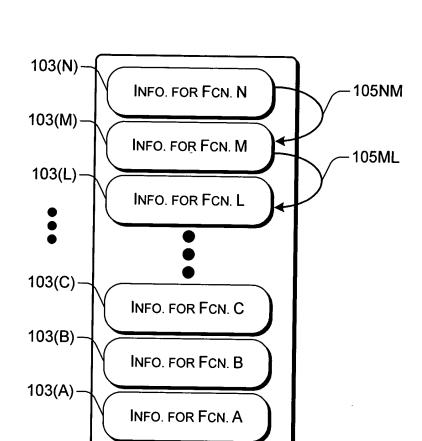
Docket No: MS1-1450US 1 of 8

Inventor(s): Mosier et al. Title: Exception Handling

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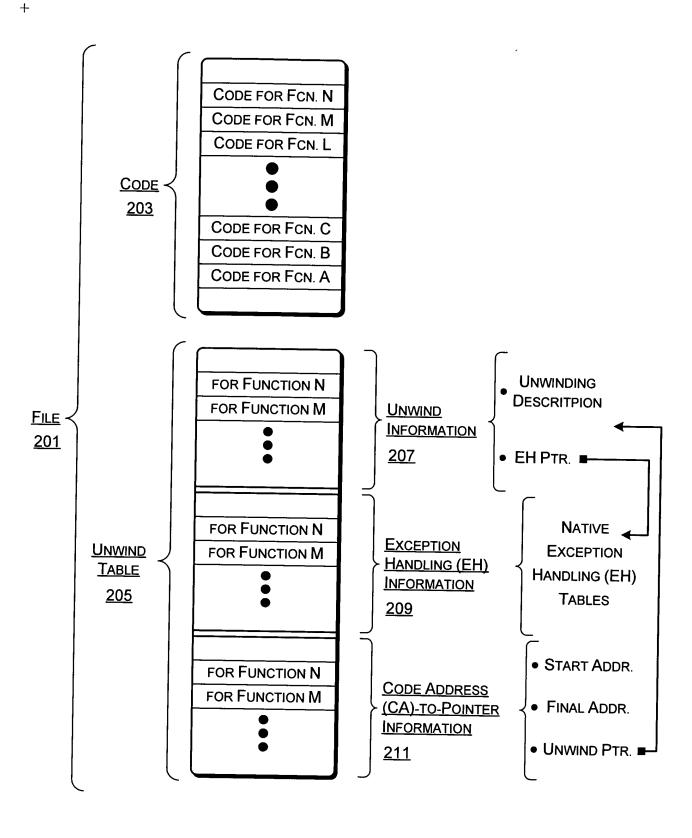
799.1 Prior Art

<u>101</u>

STACK

Docket No: MS1-1450US 2 of 8

Inventor(s): Mosier et al. Title: Exception Handling



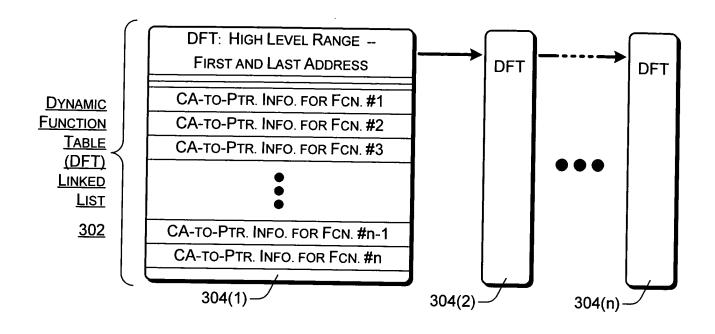
719.2

Prior Art

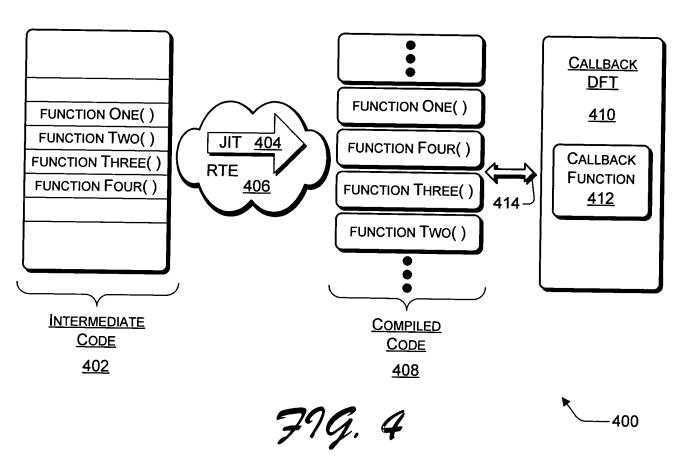
Docket No: MS1-1450US 3 of 8

Inventor(s): Mosier et al. Title: Exception Handling

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799.3



Docket No: MS1-1450US 4 of 8

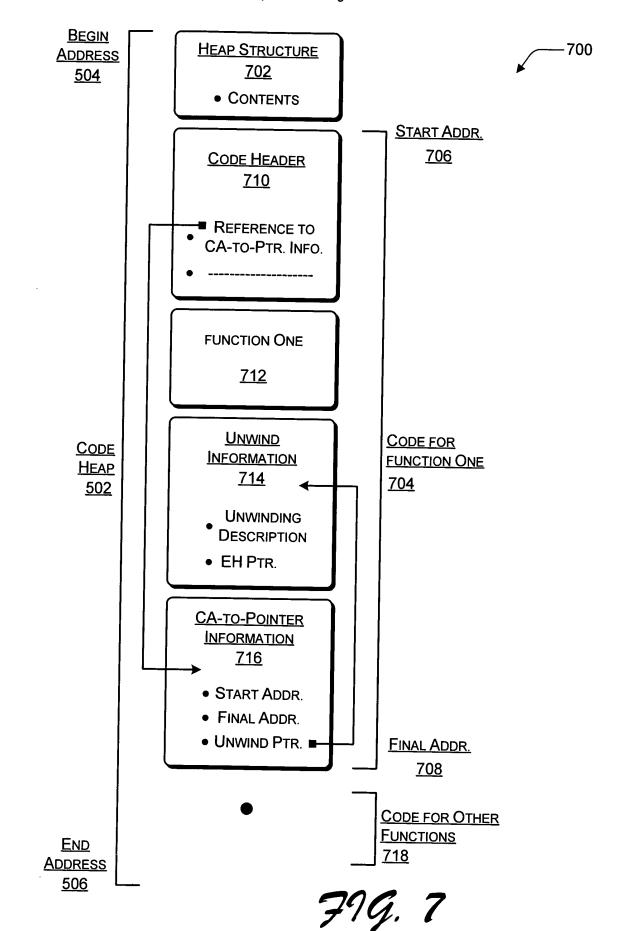
Inventor(s): Mosier et al. Title: Exception Handling

+ **BEGIN ADDRESS** <u>504</u> **CALLBACK** <u>410</u> **DYNAMIC FUNCTION TABLE** FUNCTION ONE() **BEGIN ADDRESS** 504 FUNCTION FOUR() CODE HEAP **END ADDRESS** FUNCTION THREE() <u>506</u> <u>502</u> 414 FUNCTION TWO() **CALLBACK FUNCTION** <u>412</u> <u>END</u> **ADDRESS** <u>506</u> COMPILED <u>Code</u> <u>408</u> RUNTIME ENVIRONMENT **OPERATING SYSTEM** (RTE) <u>406</u> (OS) <u>508</u> 719.5 Instruction Pointer (IP) **CALLBACK FUNCTION** CALLBACK DFT REF. (FOR CONTEXT) <u>412</u> • START ADDR. REFERENCE TO • FINAL ADDR. CA-TO-PTR. INFO. UNWIND PTR. **RUNTIME ENVIRONMENT OPERATING SYSTEM** (RTE) <u>406</u> (OS) <u>508</u> 799.6

Docket No: MS1-1450US 5 of 8

Inventor(s): Mosier et al. Title: Exception Handling

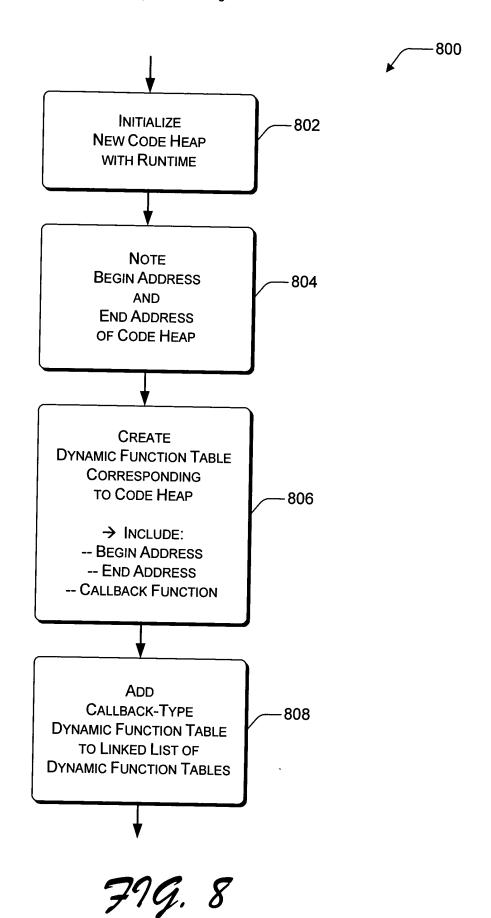
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Docket No: MS1-1450US 6 of 8

Inventor(s): Mosier et al. Title: Exception Handling

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Docket No: MS1-1450US 7 of 8

Inventor(s): Mosier et al. Title: Exception Handling

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900 **OPERATING SYSTEM** (OS) 508 902 **DISCOVER EXCEPTION** FROM RUNTIME FUNCTION 904 SEARCH DFT LINKED LIST USING INSTR. PTR. (IP) 920 USE UNWIND PTR. 906 TO ATTAIN **UNWIND INFORMATION** LOCATE CALLBACK **DYNAMIC FUNCTION TABLE** 918 908 **USE REFERENCE TO** INITIATE ATTAIN CA-TO-PTR. INFO... **CALLBACK FUNCTION** INCLUDING UNWIND PTR. 910 916 **ASCERTAIN CODE FOR** PASS REFERENCE TO RUNTIME FUNCTION CA-TO-PTR. INFO. 912 914 ACCESS CODE HEADER OF **EXTRACT REFERENCE TO RUNTIME FUNCTION** CA-TO-PTR. INFO.

RUNTIME ENVIRONMENT (RTE) 406

799.9

Docket No: MS1-1450US 8 of 8

Inventor(s): Mosier et al. Title: Exception Handling

